



National Institute of Building Sciences



NIBS Enabling Legislation

Public Law 93-383, Sect. 809 (1974)



Public Law 93-383 93rd Congress, S. 3066 August 22, 1974

An Act

To establish a program of community development block grants, to alored and extract laws relating to bounding and arises development, and for other per-

Be it emorted by the Service and House of Representations of the United States of America's in Congrues assembled. That this her mor-be cited as the "Housing and Community Development Act of 1974".

MATTONAL INSTITUTE OF BUILDING SCIENCES

Sec. 800. (a) (1) The Congrues finds (A) that the lack of an authoritative sational source to make findings and to adrise both the public and private sectors of the socialisty and to adrise both the public and private sectors of the socialisty and to adrise both the public and private sectors of the socialisty assessment to the use of building science and technology in achieving nationally acceptable standards and other technical provision for use in Peters, State, and least bounting and building regulations is an obstacle to efforts by and imposes severe burdens upon all those who powers, damp, contracts, use, operate, maintain, and retire physical facilities, and frequently results in the failures to take full advantage of new and asceled developments in technology which could improve our living environment; (B) that the stabilishment of model buildings codes or of a single national building code will not completely resolve the problem because of the difficulty at all levels of governments in updating their heaving and building regulations to reflect new developments in technology, as well as the tregularities and inconsistencies which artise in applying such requirements to particular lecalities or special local confidency (C) that the lack of uniform bouring and building regulatory provisions increases the costs of construction and thereby reduces the amount



Congressional Rationale

- no authoritative source of advice on science and technology
- a serious and widespread lack of uniformity in building criteria
- unnecessary barriers against the use of innovative building systems



NIBS Responsibilities

- Development, promulgation, and maintenance of performance criteria, standards, and other technical provisions
- Evaluation and prequalification of building technology
- Conduct needed investigations
- Assembly, storage and dissemination of technical information



Membership Categories

- Public Sector
 - Consumer
 - > Architects
 - Engineers
 - Federal Government
 - State Government
 - Local Government

- Private (Industry) Sector
 - Building Construction
 - Labor Organizations
 - Housing
 - Product Manufacturers
 - > Standards
 - Real Estate, Finance and Insurance
 - Research & Testing



Governance

- NIBS' Governing Structure
 - Established by Authorizing Legislation
 - Requires a 21 Member Board of Directors
 - 15 Members elected by the Board representing industry categories
 - 6 Members selected by President of US with Senate confirmation
 - Required that Majority Must Represent Public Interest



Councils and Committees



- Board of Directors
- Consultative Council
- Building Environment and Thermal Envelope Council
- Building Seismic Safety Council
- Construction Metrication Council
- Facility Information Council
- Multi-hazard Mitigation Council
- Facility Maintenance and Operations Committee
- National Clearinghouse for Educational Facilities
- International Alliance for Interoperability
- Whole Building Design Guide Board and Advisory Committee



WBDG Board of Direction

- Department of Defense
- Naval Facilities Engineering Command
- Army Corps of Engineers
- Air Force
- □ General Services Administration



WBDG Advisory Committee

- Department of Defense
- Naval Facilities Engineering Command
- Army Corps of Engineers
- U.S. Air Force
- General Services Administration
- Department of Veterans Affairs
- National Aeronautics and Space Administration
- Federal Emergency Management Agency
- National Institute of Standards and Technology
- Department of Energy
- Department of State
- National Institutes of Health
- U.S. Access Board
- Department of Interior
- Environmental Protection Agency



Past Conditions

- Expensive Criteria Replication and Duplication
- Expensive Criteria Coordination
- Expensive Criteria Storage
- Expensive Criteria Distribution
- Redundant and Uncoordinated Efforts



Construction Criteria Base (CCB)

- Primary criteria distribution system for
 - Army Corps of Engineers
 - Naval Facilities Engineering Command
 - Air Force
 - Guard and Reserve Units
 - General Services Administration, NASA and others
- CD-ROM, DVD, Website
- □ Over 12,000 documents
- Over 15 years
- Over 40,000 users



Current Conditions

- Budget reductions
- Criteria similarities
- Reduced expertise
- Reliance on private sector criteria
- Redundant efforts



WBDG Goal

... to provide a web portal for the **uniform access and use** of facility information in a **knowledge based** management environment.



WBDG Objectives

- Implementation of unified design guidance to allow for the sharing and consolidation of criteria, procedures and dissemination.
- Partnering and integration of public and private sector efforts through the use of federal/private sector criteria



- Provide single point access
- Provide public/private sector integration
- □ Promote unified/consolidated criteria
- Promote shared criteria devleopment
- Facilitate criteria review and revision
- Reduce criteria development and distribution costs



WBDG Structure

- **Design Objectives**
 - > Aesthetic
 - Safe
 - > Sustainable
 - > Functional
 - Productive
 - Durable
 - Cost Effective
 - Accessible
- Building Types
- $\begin{tabular}{ll} \square Systems and Products\\ $June\ 2$-5, 2002 & www.\ energy 2002.ee.doe.gov \end{tabular}$



Whole Building Design Guide Demonstration



www.wbdg.org